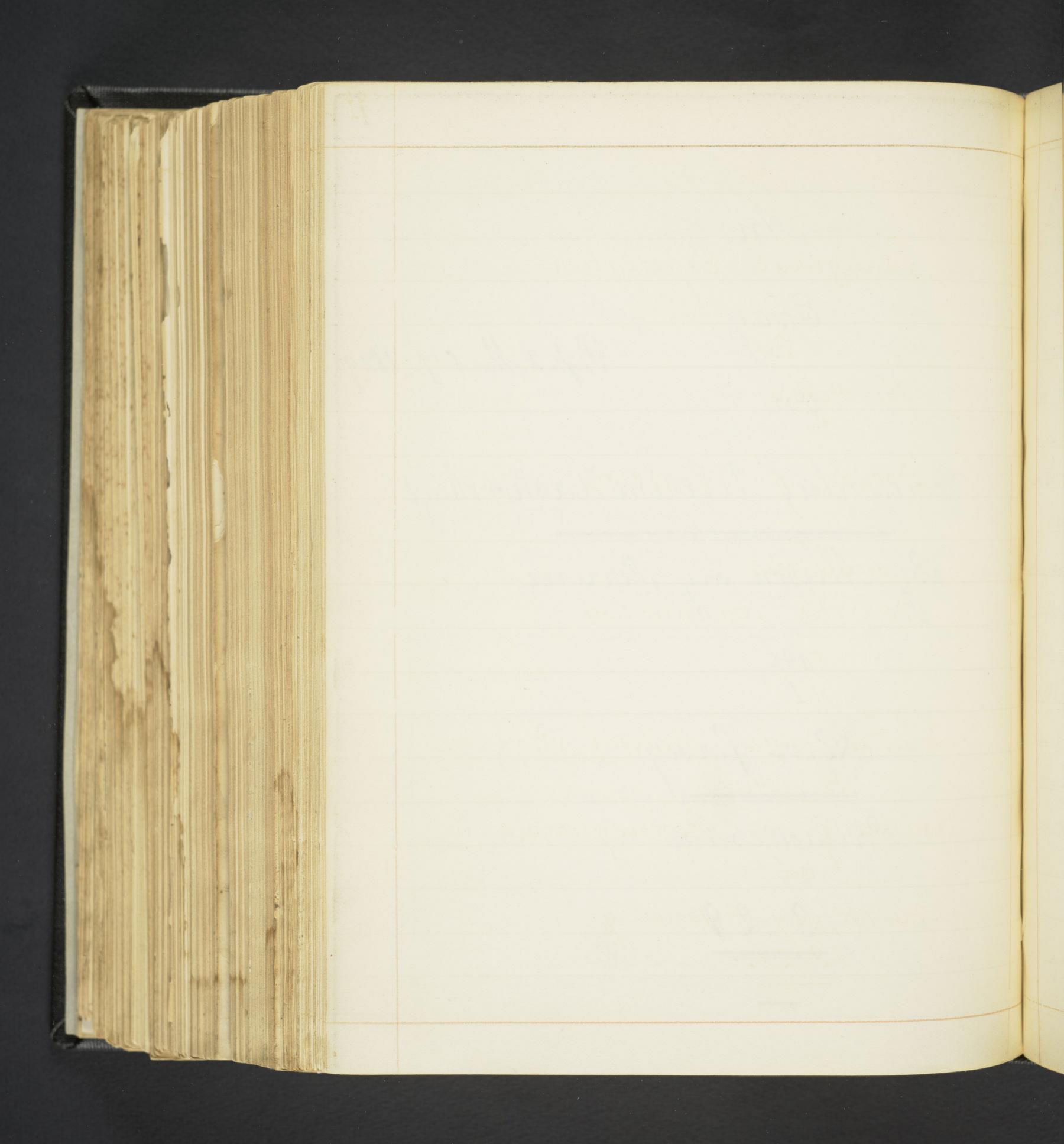
An Essay Paped March 7. 1829 On Recidental Uterine Hæmorrhage By Allison Ely Perrine Rew- Jersey Philadelphia 18 29



An Inaugural Dissertation The Degoree of Doctor of Medicine Submitted To the examination Trustees and Medical Professors University of Pennsylvania The 1st. day of January 1329.

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Dear dir, Gilbert & Woodhull.

Conscious of the many acts of hindness I have received from you, since I first entered as a medical student the portals of your office; and cherishing a sense of gratitude for such generous acts: I gladly embrace this opportunity of expressing my thanks to you, for the hindness, and attention, you heretofore have shown me.

May your life be prolonged to an age replete with honour, as it now is with admiration, is the sincere wish of your much obliged, and highly fa-voured pupil.

Allison & Perrine.

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To Dr William P Dewels.

Dear Vir.

Thort as has been the time, Since I have had the advantage of your private instruction, yet to you am I indebted for many a valuable suggestion, both in public and in private; and of you have Pimbibed a taste for that branch of medical science, that has so long found in you a second Bandelocque. In consideration of such advantages, purmit me thus publicly to declare my thanks and satisfaction. May your life, so valuable to the applicated, be long spent in the cause of suffering humanity, and in the fromulgation of useful provoledge. And may your labours intitle you to a name, that shall romk with a Haller and a Hunter Allison & Perrine.

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Uterine Hamorrhage. As the term Uterine Hamorrhage signifies a discharge of piere blood from the internal face of the uterus, occurring at any period of female wistence; it follows that the discharge improperly called "Menorrhagia," and still more improperly considered as an "immode trate flow of the menses," should be considered under the same term, and treated of in this dipertation. But all discharges from the unimpregnated uterus, are of little moment when compared with that tremendous, and overwhelming townent, that threatens the pregnant female with the inevitable destruction of her own, or that of her infants life; or if she escape it will be but with a health, that shall soon bring upon her all the horrors that attend phthisis, or the devastations of general dropsy. A case of assites from this cause occurred in the Alms

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Concealed Uterine Hamonhage. This is no artificial and ill-founded divis ion, it is not the praduct of a youthful mind, but it is the arrangement of the great Bandelocque, and not of my own fabrication. The danger of an internal hamorrhage is too evident, and its difficulties too often felt by the experienced, to pass it by unnoticed; all practical writers warn us against internal flooding, nay, some carry it to interference, to ascertain the diagnosis, among whom are Dry Johnson * and Leake. + The causes of this hamorrhage are various, and each requires a separate consideration: 1st. Ruptwee of the ressels of the umbilical cord; 2d. a deparation of a portion of the placenta, by the adherent edges of which the blood is confined; 3d. a closure of the os uteri, by which the blood Abused into the cavity of the uterus from any source is concealed. Though a hamorphage

^{*} vide Syst. of Mid. p. 157 + vide Diseases of Women vol 2 p. 280

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rarely proceeds from the umbilical vefsels, yet it demands a slight consideration; for La Motte,* M. Levret, + and Bandelocque, # from the testimony of their own senses bare witness to its occurrence. Hence it appears that Dr Rigby's # declaration is only calculated to bull into a false security, for he declares "that as it perhaps may never occur again, I think it deserves not to be considered among the general causes of the interine homorrhage?' Without any remark of my own, Ishall only appeal for its refulation to the apertion of my venerable Breceptor" it is fortunately" says he # but of rare occurrence, but its management on that account should be the better defined." Again it would appear that Dr Rigby is equally insorrect, when he saystt that the separation of the placenta from the uterus is the protesmate cause of every considerable discharge of blood from the womb?" yet it is truly of rare

vide Dewes, Bandelvegne 1.272 # vide Dewees Mich. 15 464 # vide Dewees, Bandelvegne 15.272 # vide Dewees Mich. 15 464 # vide Dewees, Bandelvegne 15.272 # vide Righy on Uterine Hamorrhage 15.15 ## vide Righy on Uterine Hamor. 15.7 A CONTRACTOR OF THE PROPERTY O teol . fun and the 1 Hory min

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occurrence, for though the cord may be so short as siv inches, or so long as forty eight, and twisted seven times around the childs nech, as Bandelocque has seen * and though the umbilical cord may be varicose, which is always perhaps the ease, when heemorrhage proceeds from this cause, yet the economy of the uterns and liquor amnii is against it; for if the latter be evacuated, the contractions of the muscular fibres of the uterus causes it to grasp the fature, so as to render it immovable; and if the waters are retained, their specific grave ity is so nearly in equilibrio, with that of the child that neither will preponderate. Atwithstanding, this does sometimes take place, but in such cases it must be evident, that the blood is evbravasated in the cavity of the membranes and thus eludes the most careful warnination, until symptoms of a most

^{*} vide Dennes Bandelorgue p. 153

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alarming nature ensue, such as dull deep seated pain, a sensation of weight in the part, distention of the abdomen, sometimes to an enormous degree, and faintness, the countenance appears ghastly, and expressive of the greatest anxiety, the extremities become cold, laborious breathing, frequent sighing; and if not speedily relieved expires in convulsive agonies. Our only resource in this case is delivery semel et simul; for on this alone depended the safety of our patient, As regards the second, and third causes of concealment, little need be said in addition to what has been premised; the occurrence of the former is very common, for it is but reasonable to suppose, that when a portion of the placenta near its centre is detached from the uterus, whilst its edges remain in statu quo that there will be a hidden flow of blood, though not to a very great extent, without the edges are

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broken love, and become an apparent hamorrhage, or extravasated into the uterus, and there confined by a closure of the os uteri either naturally, spasmodically, or by an interposition of a foreign body as a coaquelum, placenta, tampon &, when it would rank under the third cause of concealment. Almost all writers on medurfery detail cases of internal flooding, from both of these last conditions; thus, Bandelosque * relates several, the case of Madame de-was of the first condition. De Dewces details a similar case, t. the latter writer # gives us a case also of internal hamorrhage owing to the third condition which terminated fatally. Considering the multiplicity of lymphatics that meander throughout the substance of the uterus, it appears a curious fast that the blood extravasated behind the placenta is not absorbed how ever long it remains, but is found blackish

vrde Dewer Boudelvoque p 275 + vrde Dewer Boudelvoque p. 271 # vide Dewer Midnibuy p 474 The state of the s A STATE OF THE STA

solid, and dried, as was the condition of all the cases handed down to us by Bandelocque; this proves what Dr Denman * long ago declared that the particles of a putrified placenta we not absorbed into the constitution, and become the cause of dangerous diseases, as has been afserted by many; but rather that the putridity of the placenta is the consequence, and not the cause of the disease, which is more generally owing to the rashness, or violence of the ignorant, in proof of this point, the Doctor + tells. us that he once knew a placenta to remain fifteen days with little signs of putrefaction. Thouser pays a proper attention to concealed Uterine Hamorrhage, will not only admit the propriety of the division, and the danger of negligence; but will be led to form his prognoses of every hamoverhage, more from its effects on the system, than from the quantity of blood effused, for on this depends the time when, we are to execute what

^{*} vide Denman's mid. p. 472 + vide Denman's mid. p. 501

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reason dictates, or experience authorises. The symptoms having been premised, and the treatment being about to follow in another place, I shall proceed to a more important, and diversified order of accidental uterine homorrhage. Apparent Uterine Hæmorrhage. Here we again launch into a labyrinth of-greater difficulties, than that from which we have just escaped. But happily for sufpering humanity, that the curious delight on such to dwell, for whilst some from its simplicity of treatment disregard it, others from said experience wenture to remind the adept, and teach the novice its great impor tance. Thoever views with an anatomical eye the connection of the overm with the interns, and considers the facility of its separation by causes always threatening the expulsion of the Uterine contents, must cease to wonder at its frequency, and the danger of its occurrence.

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Though the own until the fifth month of gestation, is intimately connected with the whole internal face of the uterns, by the interlocking of the vefsels of the chorion with those of the dicichua; yet the separation of these repels, which are smaller, more convoluted, and consequently commanding lefs blood, is not attended with so much danger from hæmorrhage, as in a more advanced period of pregnancy, when the connection though smaller, is formed by larger vepels conveying a much greater quantity of blood. Therefore the danger of flooding increases, whilst its frequency diminishes, as gestation advances. Numerous causes of this hæmorrhage have been assigned by writers: as, 1st too short a funis, whose agency if not mugatory is certainly doubtful; 2d, mechanical violence; 3d. passions or emotions of the mind; 4th, plethora. These have all been laid down as causes of this

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disease before delivery, and cases detailed in Support of their efficacy; thus the second caused the death of the sister of Mauricean &, the third that of the Spartan miother, t and the fourth is supposed to have slain thousands; to these are added many others as stimulants, emmenagogues, aleortiva, and every thing that well increase the action of the heart and arteries, These are considered the exciting causes, whilst the predisposing it is stated this to be surght for either in an increased quantity of blood circulating towards the uterine refrels, or some malformation of the repels which connect the placenta to the uterus. But it seems more rational to say that the contraction of the uterus is the exciting cause, that the tendency to contraction is the prechisposing, and that the remote causes enumerated above are merely contingent, or accidental in their modus

^{*} vide van sweitens com, sect 1306 † vide van sweitens com, sect 1306

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operandi, for they only produce an increased flow of blood into the uterine paruetes, which becoming the survey of distention and viritation, stimulates the muscular fibers to contraction by which the overn is separated from the uterus and hamovhage follows. The causes of flowdring after delivery are: 1st; atony; 2d, spasm; 3d, humoral engorgement; 4th, unequal contraction of the uterus; 5th, inversion. There yet remains one cause of this disease, whose action is unavoidable, and whose presence declares danger to the proposor, and veration to the acconcheur. I allude to the implantation of the placenta over the month of the uterus, giving ruse to one of the most inveterate and dangerous diseases, if neglected, that rank on the long list of human informities. In prosecuting our inquiries in the treatment of this disease, it appears proper that it should be arranged into four

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divisions; 1st, into all that period between conception and the fifth month of Utero-gestation; 2d. into all the remaining period of utero-gestation; 3 d. into that period between the birth of the child and the expulsion of the placenta; 4th. into that which may follow the expulsion of the placenta. First Period. Until, near the period of the fifth month of utero-gestation, the own is entirely surrounded by the walls of the uterus, so that the attachment of one to the other, exists in every point of surface, and from any part of which, when the connecting medium is distroyed, a hamorrhage may ensue, It would be curious, and indeed interesting to the physiologist to ascertain the reason why women we more tiable to abortion than animals; and why those females who are blefsed with the happiness of the more hocurious scenes of life, are more

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obnocious to it than those unhappy persons, whose destiny is servile, and whose station in life is rude and rustic. But here all speculation ceased, and it is no more than possible that it should ever remain shrouded in obscurity and brivied in the deep areana of noture. In the commencement of this disease, when the bleeding is inconsiderable, the woman robust, the pulse full, and pain not acute, she complains not, her usual orrupation enlists her attention, and in sprite of every injunction, she forgets the past, and disregards the future, until the hæmorrhage is repeated again and again; increasing gradually, or flowing in a torrent; until the contents of the uterus are discharged. The Prognons of abortion is involved in great difficulties, of which the experienced have often complained, for it will sometimes take place when we least expect it, or recovery happen when all our

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hopes had been abandoned. But in general, when there is considerable pain, when the cervir uteri surrenders to the efforts of the body and fundus; the abdominal tumour diminishes, when milk is secreted, and the mamma become fluxcid, we may expect a miscarriage; but when these we absent the own may tarry yet longer. These symptoms are sufficient to justify us in abandoning all hopses of preventing abortion, and to cause us to direct our meadures towards the flooding alone. Dr. Bard has declared * that,"when lubour pains precede the discharge, miscarriage can seldom be prevented; when they follow, it sometimes may" Since it is so difficult to point out any presise prognostic mark liable to no exception, we should never fail to direct our practice, as though we expected to succeed. The indications in the treatment of this period, are, 1st. to arrest the bleeding; and 2d. prevent a recurrence of the hæmomhage. However slight the discharge may be, we

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should never pays it by unheeded, for the sooner we arrest it the better; for the preservation of the own, or the safety of the woman. He should attempt to arrest the hæmorrhage by directing a horizontal position upon a mattrefs, or suching bottom, undisturbed by any exertions whatever, either on the part of the physician, or that of the murse, hence medicines, drinks, or nourishment of any kind should be given in that position. He should not give any thing that would excite either vomiting, purging, or coughing, if they do occur they must be managed with great advoitness. Neither should the patient be disturbed for the adjustment of either her position, or the changing of her-clothes. The next step is to diminish the action of the heart and arteries, both generully and locally. And first, generally, by admitting cold air into the room, by drawing the curtains, and throwing the clothes of the bed; giving at the same time cold acidnilated drinks, and fored of the

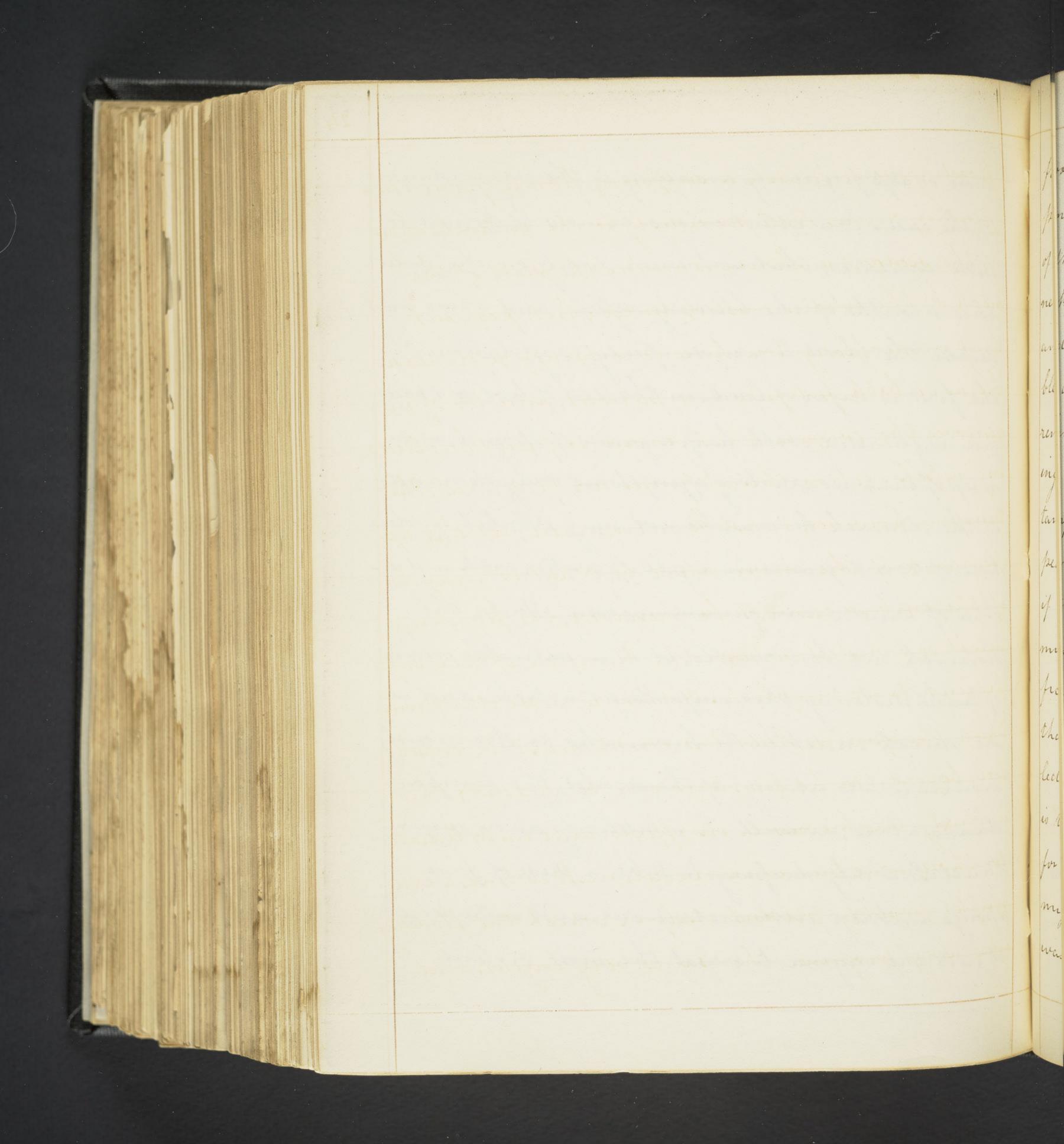
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same nature when demanded; and by forbidding all stimuli, either in a liquid or solid form. He next resort to venesection; the importance of this should never be lost sight off when circumstances demand its employment. Second, locally by cold applications; as cold vinegar, or spirits, either alone or diluted, to the public region; or simply a bladder filled with ice and water. Our fourth step is to subdue pain if it be present, by marcoliss; of which opium stands foremost, in this valuable class of medicines, it should be given in large doses if much pain attend, and repeated until uterine contractions are subdued, or its powers appear incapable of the desired end. In the exhibition of opiates in Uterine hæmorrhagies generally, our learned Profesor of Midwifery observes, (whose observations, indeed, should abuays be respected) that they should be combined with Specarmanha, in the proportion of half a grain of the latter to about two grains of opium; to be repeated

^{*} vicle James Burns Mid. note to p. 315 vol. 141-

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more or less frequently, according to the circumstances of the case. Our attention should now be turned to those remedies, that act immediately on the paterlous mouths of the bleeding refsels; and those that dispose the blood to a more speedy coagulation. Of the first is sugar of lead, in the dose of two or three grains, guarded with half a grain of opium, more or less of each as existing symptoms may demand; if the stomach be writable, we may exhibit a solution of 20 or 30 grains in a gell of water, with a drachm of landamum, per annn; even should the Homach not be veritable, it is a valuable mode of administering this important article, and we are much indebted to him, who so strenuously inculcates its utility. Of the second the tampon stands alone, as well in simplicity as in importance: It is only necessary to take a piece of fine sponge imbried with acetis acid, and intraduce it into the vagina, to arrest the most violent



flooding, and snatch a suffering female from impending ruin. But previously to the introduction of the sponge, we should examine the state of the nech of the uterus and as tinca; but prequent and unnecessary touching is certainly reprehensible, as it both fatigues the patient, and two often removes the evagula that served to plug the bleed ing refsels, yet on this depends our prognosis. The tampon, however, must be introduced, let the appearance of the cerus uteri be what it may, for if the embryo connot be preserved, the flooding must be arrested, which the tampon is all suffreient to accomplish. Nothing is more dangerous than the opinion, that the owner must be expelled, before the hæmorrhage can be arrested; this is trusty mischievoies in its effects, and imfortunate for those who put it in execution. It is true, a case might propsibly present itself in which the flowding was very propuse, the pains very wigent, and

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the os interi well of here we might be justified if we interfered; yet it should not be concealed, that even here we frequently add a greater to a leper evil. The embryo, it is true may be expelled by rupturing the membranes, but by this we gain nothing, for the secundines are often retained, and an alarming flooding is hept up, by their presence, and which can only be relieved, by their extraction. Thould this map be situated love we may possibly withdraw it by the fingers, yet this is seldom the case. If the hamorrhage be slight, and the Uterine contractions feeble, we may try a stimulating injection, or administer the ergot. Tecond Period.

Thould the woman have escaped abortion, and advanced thus far in her pregnancy, the may nevertheless be exposed to a hremovrhage, during this period; a period which comprises all that time, from the commencement of the fifth

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month, to the full completion of utero-gestation. Thould any part of the placenta be detached, by any of the remote causes, large respels well more be ruptured or exposed, and flooding will ensue, proportionate to the advancement of the pregnancy; the extent of disunion; and the force of the circulation. None the greater the advancement of pregnancy; the more unfavourable must be our prognosis; the more active our remedies; and the more strict our injunctions. The indications for the management of ploading during this period, ove the same, as those for the first; and the remedies to be employed depper but little; yet their whibition must be more promptand decisive, their doses larger, and their repetition more frequent. It now becomes a question, should all these remedies fail, and the hamowhage continue, what next must be done? should we intraduce the tumpon, or proceed to deliver?

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Levoux is an advocate for one, and Puros the other. It is however the practice of the present day to give a faithful trial to the former, which, indeed, will generally succeed: Should it fail, however, we are warrantable in executing the latter. Before we proceed to delivery by turning, we should examine the state of the os where, if it be, neither dilated, or dilateble, the tumpon is the sine quanon. Third Period.

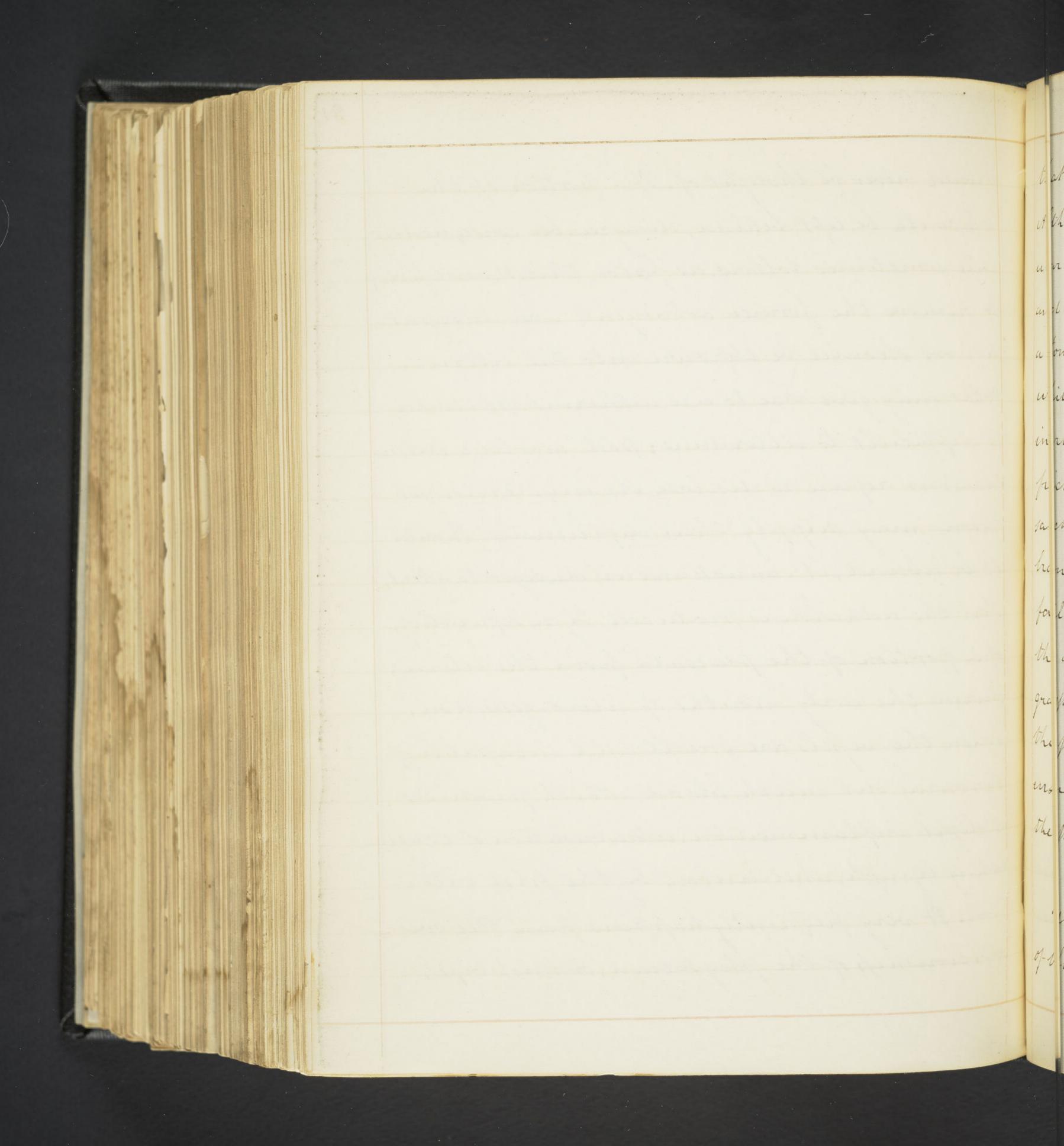
This period includes all that time, between the delivery of the child, and the expulsion of the placenta. Hamorrhage can only happen, during this period, when a portion, or the whole of the placenta is separation the aterus; and this separation can only be effected by aterine contractions, unless meshanical violence has been applied to the placenta, either, directly, or indirectly, He should not however mistake a discharge of blood, which almost always if ones from the vagina, after the birth of

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the child, for a hæmorrhage. Flooding cannot take place, so long as the adhesion of the placenta to the uterus is maintained, however great may be the atomic state of that viscus. Should this adhesion, however, be broken by any of the remote causes of uterine hamovrhage, before delivery; improper management during its progress, or the natural efforts of the uterus after that operation: and should the spontaneous action of the interns be insufficient for the expentsion of the placenta, we may expect a flooding in proportion to the extent of disumion, the inertia of the uterus, and the rapidity of the evenlation. Though the placenta is generally expelled by the natural efforts of the uterus, after parturition; yet it sometimes happens, that it is retained, either; from 1 st, insufficient action of the interns; 2 d. adhesion of the placenta; or, Id. veregular action of the muscular probnes of the uterus. Each of these conditions requires some difference in its treatment.

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should never be thought of. If a portion of the placenta be left behind, disagreeable consequences will sometimes fullow, as fector, thirst, and fiver, to remove the former astringents and delergent liquors should be thrown into the interns. What may give rise to our adherent plusenta is difficult to determine; post morten exammations repuse to disclose its mysteries, yet theory may supply their deficiencies. Thould it be absured, it cannot meur danger to afsert, that the adhesion is produced by a separation of a portion of the placenta from the interns, during the early months of utero-gestation, when the vefsels are small, and insapable of throwing out much blood, which produces a slight implammation, extravasation of coaque lating tympsh, and union by the frist intention. It very frequently happens from the overofficiousness of the physician, or michwife,



that the internes is found in the third condition. Although the uterns is seldom subject to this vinegular contraction, yet it does sometimes take place, and then we have a consenled humorrhage, from a tonic contraction of the nech of the uterus, whilst the body and fundus are in a state of inertia. He should in this case commence with frictions on the abdomen, cold applications, sascharum saturni, secule cornutum, and trancly and water if indicated. Should these fail, a hund should be introduced within the of interi, and remove the conquela; then grasso the placenta, rotating the hand against the prarietes of the uterus, until contractions ensue, and then, and not-till then, should the placenta be withdrawn. Fourth Period.

Under this term, we include all discharges of blood, that may occur after the expulsion

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of the placenta; and it may be either a contimuation of that which existed before the expulsion of the placenta, or it may follow the exclusion of that maps. In either case if it is not procluced, it is certainly hept-up by inertia of the interns. In general the homorstrage takes place soon after delivery, butsometimes it cours many hours afterward, for even after the interns has contracted, it may become atomic, again relax, and ofsen the mouths of a thousand bleeding vepels. In any of these cases, our whole care should be directed towards preventing or removing inertia with all its dure effects, by produung the tonic contractions of the uterus; and the remedies heretofore enumerated are all sufficient to the accomplishment of the great desiderata.

Finis.

